

Docket No. 217075US2PCT

DT16 Rec'd PCT/PTO 06 MAY 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Joseph T. VERDEYEN, et al.

SERIAL NO: 10/031,570

GAU: 1765

FILED: January 22, 2002

EXAMINER:

FOR: ELECTRON DENSITY MEASUREMENT AND PLASMA PROCESS CONTROL SYSTEM USING CHANGING
IN THE RESONANT FREQUENCY OF AN OPEN RESONATOR CONTAINING THE PLASMA



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INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT P.C.

Michael R. Casey

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Form PTO 1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.
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LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

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	AA	2,405,229	8-6-1946	MUELLER et al.			
	AB	2,483,189	9-27-1949	C. C. EAGLESFIELD			
	AC	2,735,941	2-21-1956	R. C. PECK			
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	AE	3,265,967	8-9-1966	M. A. HEALD			
	AF	3,290,614	12-6-1966	J. E. RACY			
	AG	3,383,509	5-14-1968	GOLDSTEIN et al.			
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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO	0 432 573	6-19-1991	EUROPE		
	AP	WO 01/06544	1-25-2001	WIPO		
	AQ	WO 01/37306	5-25-2001	WIPO		
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	AW	P. K. Atrey et al., "Measurement of chord averaged electron density in ADITYA using 100 GHz and 136 GHz interferometers", Indian J. Physics 66B (5 & 6), 1992, pp. 489-97.				
	AX	D. Bora et al., "Plasma density measurement using a simple microwave technique", Rev. Sci. Instrum. 59 (10), 10/1988, pp. 2149-51.				
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	AZ	Nils Brenning, "An improved microwave interferometer technique for plasma density measurements: II", J. Phys. E: Sci. Instrum. 21, 1988, pp. 578-82.				<input type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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LIST OF REFERENCES CITED BY APPLICANT <div style="position: absolute; top: 0; right: 0; transform: rotate(90deg); font-weight: bold; font-size: 1.2em;"> RECEIVED MAY 07 2003 PTO 1700 </div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); border: 2px solid black; border-radius: 50%; padding: 10px; text-align: center;"> OIPE JCI39 MAY 06 2003 PATENT & TRADEMARK OFFICE </div>				APPLICANT Joseph T. VERDEYEN, et al.		GROUP 1765	
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	AW	J. A. Fessey et al., "Plasma electron density measurements from the JET 2 mm wave interferometer", J. Phys. E: Sci. Instrum. 20, 1987, pp. 169-74.	
	AX	H. Kumar et al., "Measurements of plasma density in argon discharge by Langmuir probe & microwave interferometer", Indian Journal of Pure & Applied Physics 17, 05/1979, pp. 316-8.	
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AAB	J. R. Wallington et al., "A sensitive microwave interferometer for plasma diagnostics", J. Plasma Physics 3 (part 3), 1969, pp. 371-5.		
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AAE	G. R. Hanson et al., "Density fluctuation measurements in ATF using correlation reflectometry", Nuclear Fusion 32 (9), 1992, pp. 1593-608.		
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AAM	S. Shammass et al., "Simplified microwave measurement of uv photoplasmas", J. Appl. Phys. 51 (4), 04/1980, pp. 1970-4.		
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AAO	W. Hess et al., "A new 17...23 GHz cavity stabilized, hermetically sealed module VCO in chip technique", Conference proceedings of the 22nd European Microwave Conference, vol. 1, August 24-27, 1992, pp. 143-8. INSPEC abstract number B9211-1350H-047.		
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AAQ	Helmut Barth, "A high Q cavity stabilized Gunn oscillator at 94 GHz", 1986 IEEE MTT-S International Microwave Symposium Digest, June 2-4, 1986, pp. 179-82. INSPEC abstract number B87006105.		
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	AAB	M. E. Znojkwicz, "8 GHz low noise bias tuned VCO", 1984 IEEE MTT-S International Microwave Symposium Digest, May 29-June 1, 1984, pp. 489-91. INSPEC abstract number B85017875.					
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	AAB	Dunfu Li et al., "Influence of moisture on cavity-stabilized oscillators", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, pp. 457-460.					
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	AAN	E. V. Beregunin et al., "Saturation absorption of the IR-FIR radiation in semiconductors and its technical utilization", International conference on millimeter waves and far-infrared technology conference digest (Cat. no. 89TH0257-6), 1989, pp. 597-600.					
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